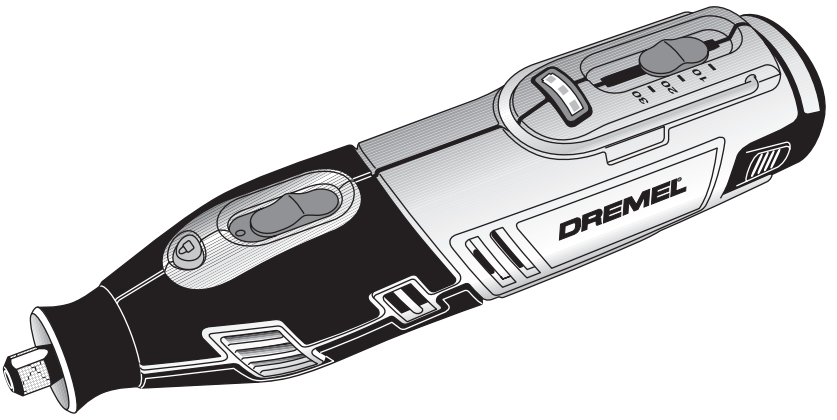
WEU

DREMEL® 8200



GB Original instructions 19

Dremel Europe
The Netherlands

2610Z03933 02/2012

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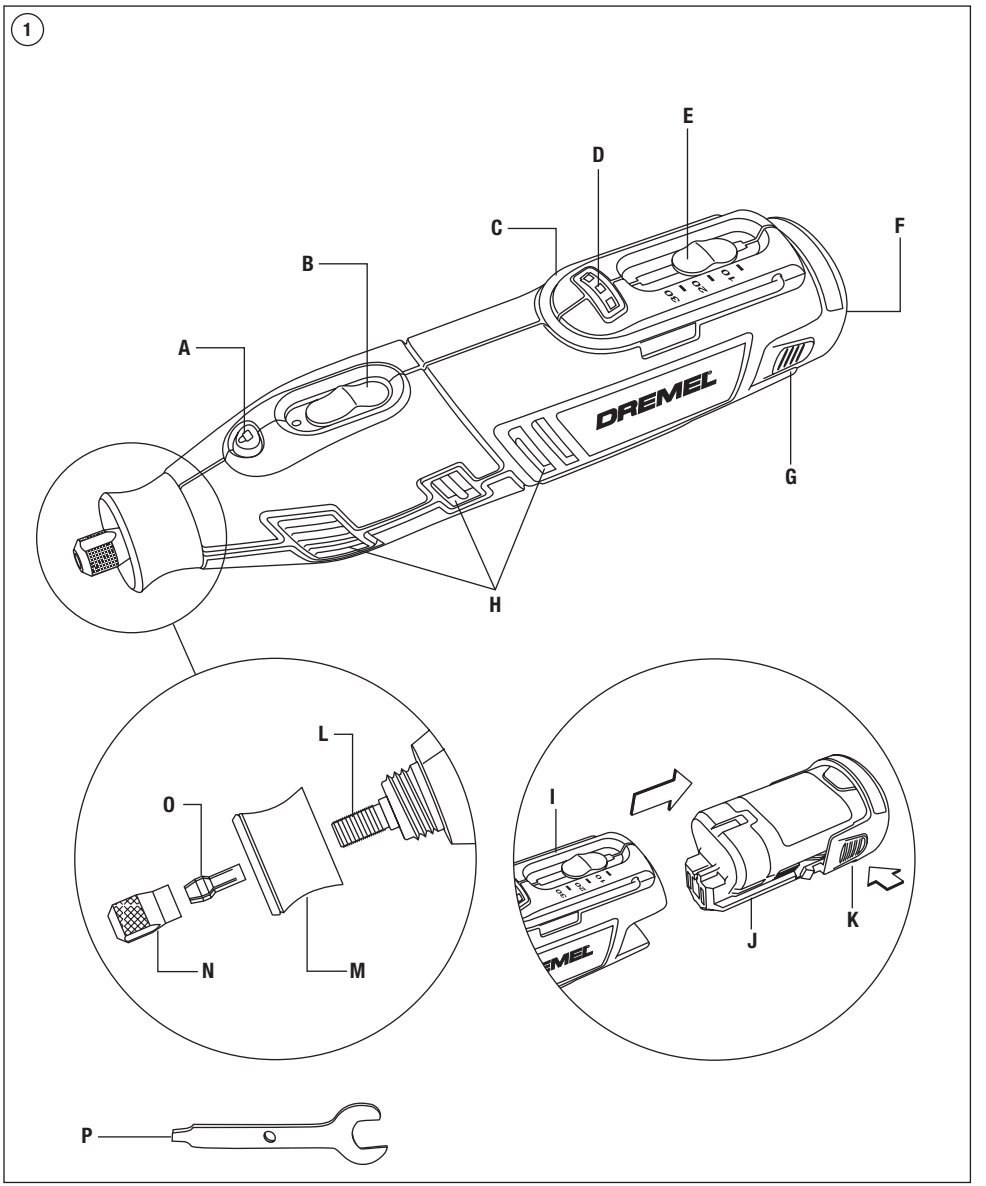
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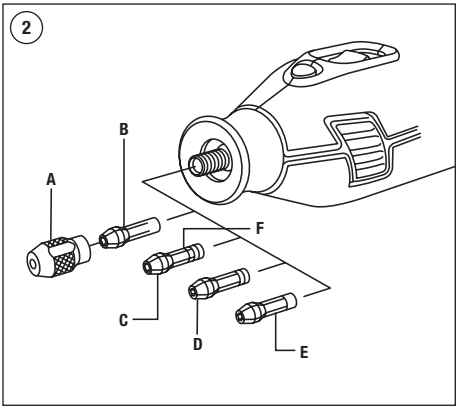
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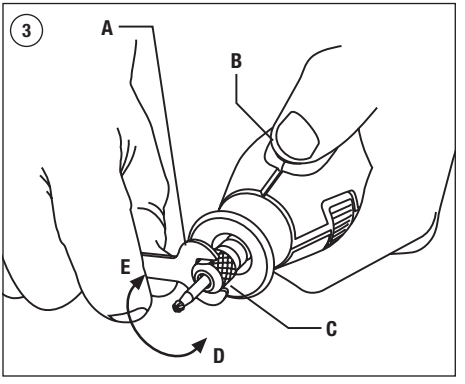
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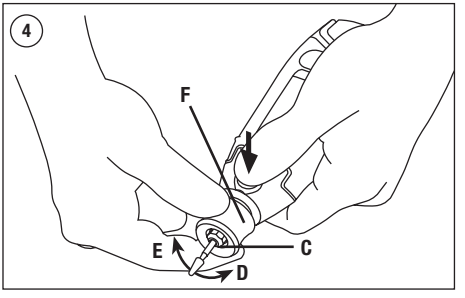
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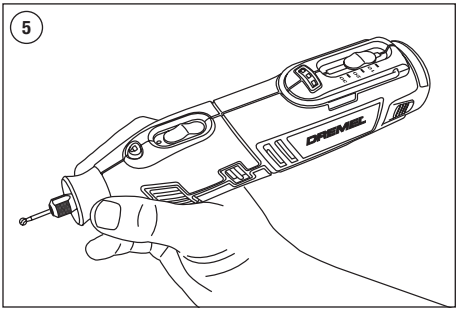
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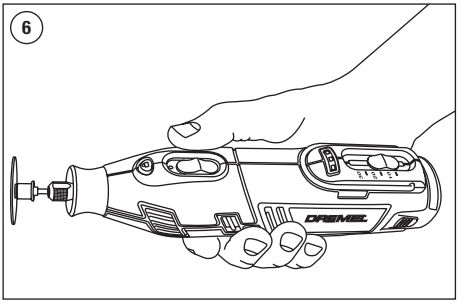
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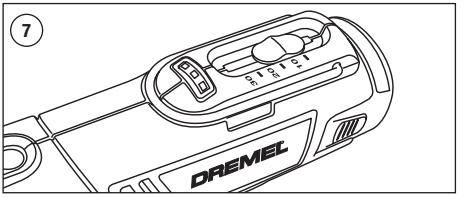
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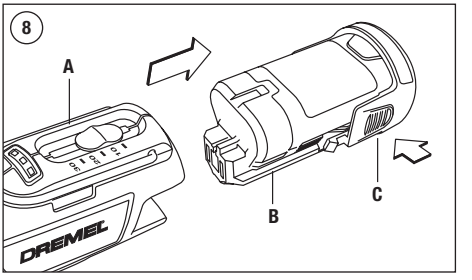
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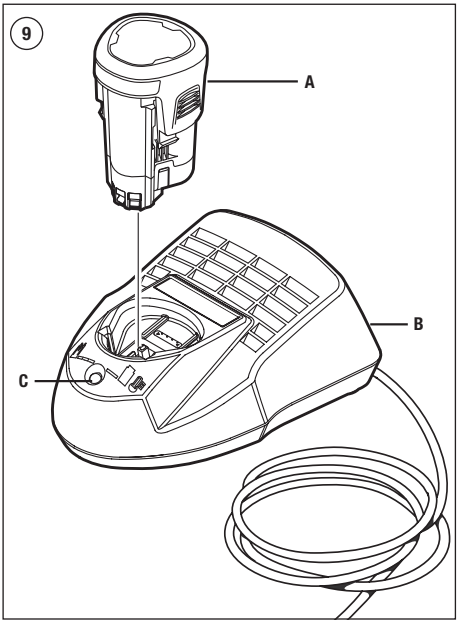
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	Max RPM										
105	35.000			■	■			■			
106	35.000			■	■			■			
107	35.000			■	■			■			
108	35.000			■	■			■			
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114	30.000			■	■			■			
115	30.000			■	■			■			
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118	30.000			■	■			■			
125	30.000			■	■			■			
134	30.000			■	■			■			
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403	15.000						■	■	■	■	■
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407	35.000			■	■		■	■	■	■	■
408	35.000			■	■		■	■	■	■	■
409	35.000		402	■	■		■	■	■		■
414	20.000		401				■	■	■	■	■
420	35.000		402	■	■		■	■	■		■
422	20.000		401				■	■	■	■	■
423S	20.000		(SC)402				■	■	■	■	■
425	20.000		402				■	■	■	■	■
426	35.000		402	■	■			■	■		■
428	15.000						■	■	■	■	■
429	20.000		401				■	■	■	■	■
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443	15.000						■	■	■	■	■
453	30.000	1453					■	■	■		
454	30.000	1453					■	■	■		
455	30.000	1453					■	■	■		
457	30.000	1453					■	■	■		
462	30.000						■	■	■		
502	35.000			■	■		■	■	■	■	■
504	35.000			■	■		■	■	■	■	■
511S	20.000		(SC)402	■	■						
512S	20.000		(SC)402	■	■						
516	20.000						■	■	■	■	■
520	20.000						■	■	■	■	■
530	15.000						■	■	■	■	■
531	15.000						■	■	■	■	■

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	Max RPM										
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537	15.000									■	■
538	20.000						■				
540	35.000		402	■	■		■	■	■		■
542	35.000			■	■	■					
546	35.000	670		■	■						
561	35.000	565		■	■	■					
562	35.000	566									
569	20.000	568									
570	20.000	568									
612	35.000	231/335		■	■						
615	35.000	231/335		■	■						
640	35.000	231/335		■	■						
650	35.000	231/335		■	■						
652	35.000	231/335		■	■						
654	35.000	231/335		■	■						
655	35.000	231/335		■	■						
932	25.000						■	■	■	■	■
952	25.000						■	■	■	■	■
953	25.000						■	■	■	■	■
997	25.000						■	■	■	■	■
4485	35.000										
4486	35.000										
7103	25.000							■	■	■	■
7105	25.000							■	■	■	■
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7134	25.000							■	■	■	■
7144	25.000							■	■	■	■
8153	25.000						■	■	■	■	■
8193	20.000						■	■	■	■	■
8215	20.000						■	■	■	■	■
9901	30.000				■		■	■	■		
9903	30.000				■		■	■	■		
9905	30.000				■		■	■	■		
9910	30.000				■		■	■	■		
9911	30.000				■		■	■	■		
9931	35.000			■	■	■		■			
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84922	25.000										
85422	20.000										
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SC409	35.000		SC402	■	■		■	■	■		■
SC456	35.000		SC402	■	■		■	■	■		■
SC476	35.000		SC402								
SC544	35.000		SC402	■	■	■					
SC545	35.000		SC402								

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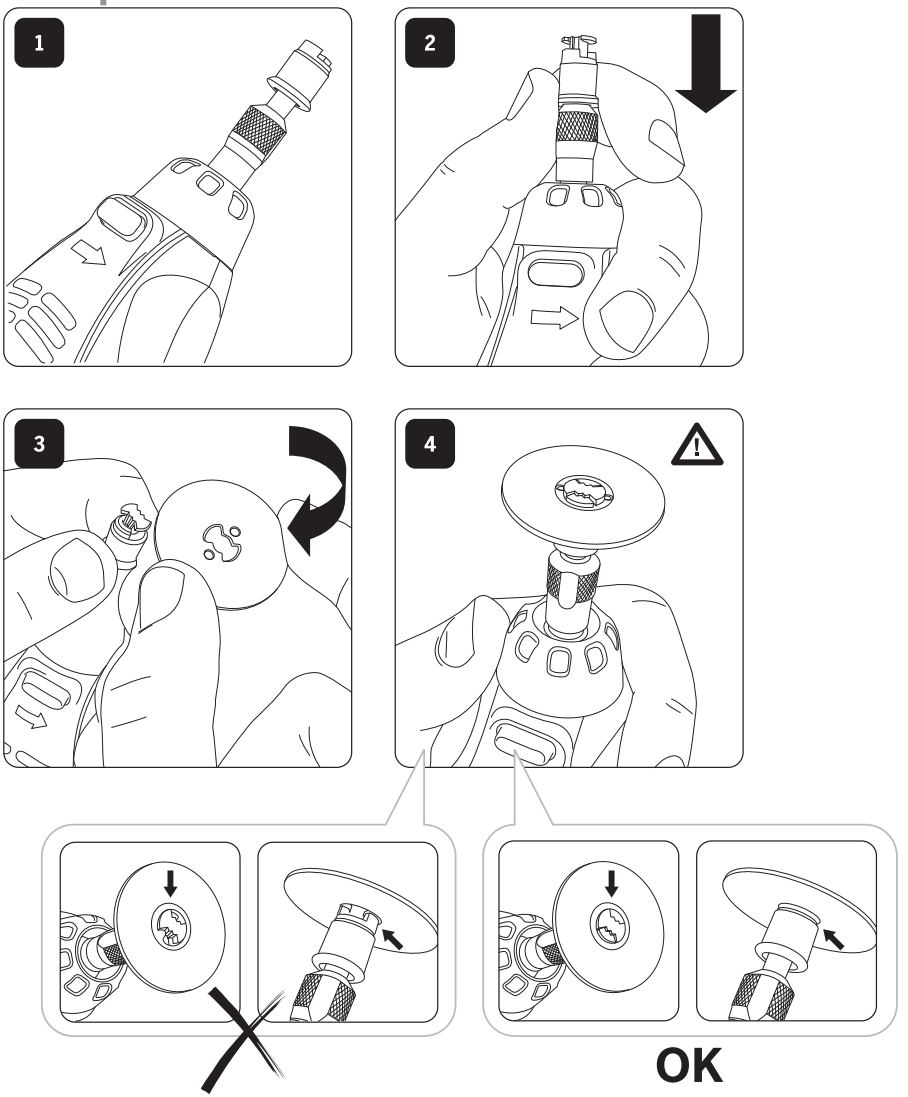
EZ SpeedClic™



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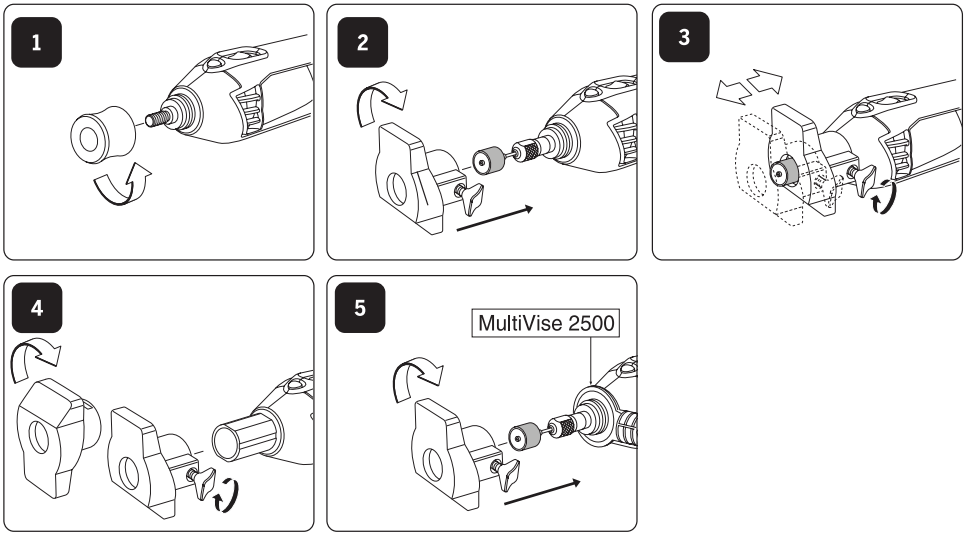

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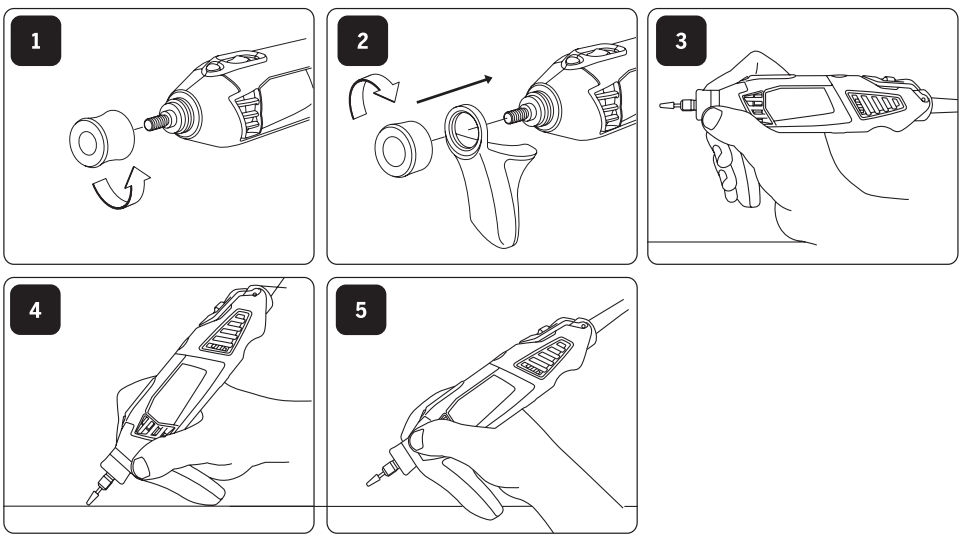

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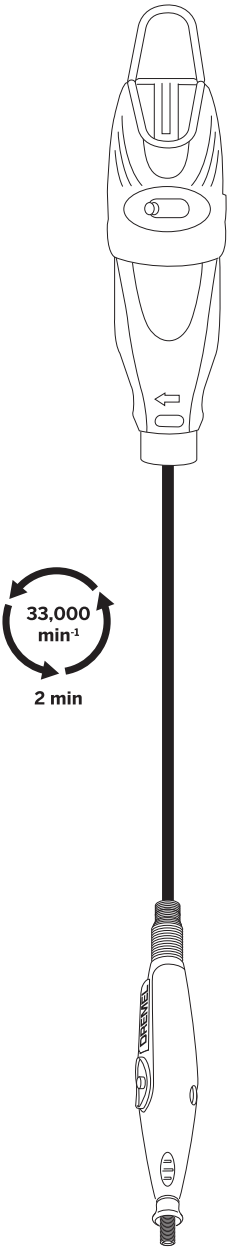

IT Per ottimizzare le performance del vostro nuovo albero flessibile fatelo girare ad alta velocità sul vostro miniutensile in posizione verticale per due minuti prima di usarlo.

ES Para lograr un rendimiento óptimo de su nuevo eje flexible, hágalo funcionar acoplado a su multiherramienta a velocidad máxima en posición vertical durante 2 minutos antes de utilizarlo por primera vez.

PT Para optimizar o seu desempenho, deixe o novo veio flexível trabalhar a alta velocidade na ferramenta rotativa, em posição vertical, durante 2 minutos antes de o utilizar.

EL **Για ιδανική απόδοση, αφήστε το ν ο σας εύκαμπτο άξονα να λειτουργήσει με υψηλή ταχύτητα σε κάθετη θ ση για 2 λεπτά πριν τη χρήση.**

TR **Optimum performans için yeni esnek milinizi yüksek hız elde etmek için dikey pozisyonda olmak şartıyla kullanım öncesi 2 dakika yüksek hızda çalıştırın.**

CS **Aby byl zajištěn následný optimální provoz ohebné hřídele, před prvním použitím nechejte hřídel po připojení na nářadí běžet ve vysokých otáčkách ve vodorovné poloze po dobu 2 minut bez zátěže.**

PL **Dla optymalizacji wydajności pracy twojego nowego wałka giętkiego, przed wykonaniem pierwszych prac, zostaw go przez 2 min w pozycji pionowej, zamontowanego do urządzenia pracującego na najwyższych obrotach.**

BG **За да получите оптимални резултати с Вашия нов гъвкав удължител, първите 2 минути го поставете вертикално на Вашия DREMEL и го завъртете на празен ход.**

HU **Az optimális teljesítményhez tegye rá a flexibilis szárat a szerszámra és használat előtt 2 percig járassa.**

RO **Pentru o performanţă optimă conectaţi cordonul flexibil la scula electrică şi lăsaţi-l să funcţioneze în poziţie verticală la o turaţie ridicată minim 2 minute înainte de utilizare.**

RU **Начиная работать с гибким валом, рекомендуем Вам в течение 2 минут позволить приставке работать без нагрузки в вертикальном положении, после чего Вы сможете продолжить работу.**

SL **Za optimalni učinek pred začetkom uporabe pustite, da se vaš novi Flexshaft z visoko hitrostjo vrti na vašem rotacijskem orodju v navpičnem položaju približno 2 minuti.**

HR **Prije početka rada, zbog postizanja optimalnog učinka, ostavite Vašu savitljivu osovinu da radi 2 minute u vertiklanom položaju.**

SR **За оптималан учинак пустите да ваш нови Flexshaft ради при максималној брзини на вашем ротационом алату у вертикалном положају у трајању од 2 минута пре употребе.**

SK **Aby ste dosiahli optimálny výkon, pred použitím ponechajte nástroj Flexshaft spustený vo vertikálnej polohe na rotačnom nástroji pri vysokej rýchlosti po dobu 2 minút.**

UK **Для максимальної продуктивності перед використанням дозвольте новому гнучкому гребному валу (Flexshaft) попрацювати 2 хвилини на високій швидкості у вертикальному положенні на інструменті для роторного буріння.**

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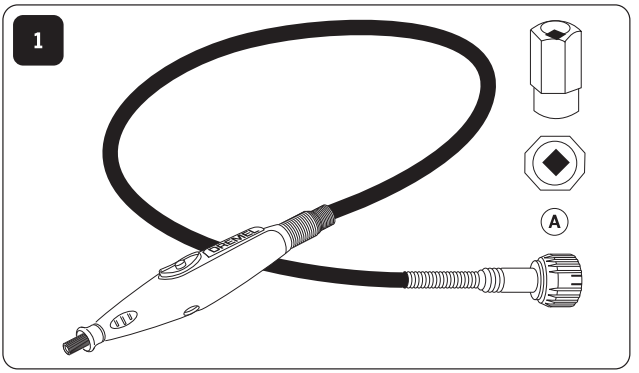

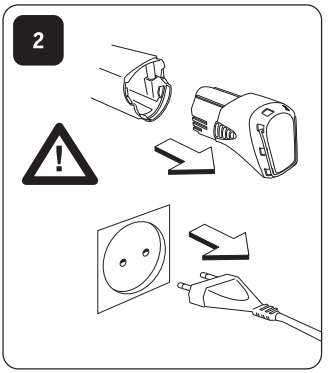

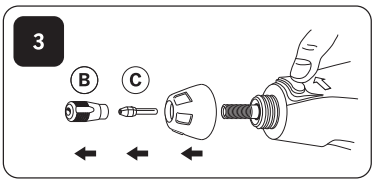

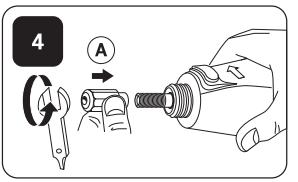

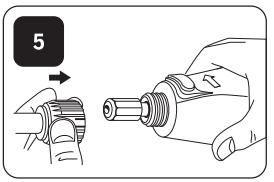

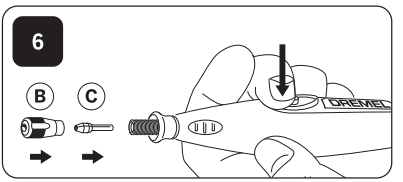

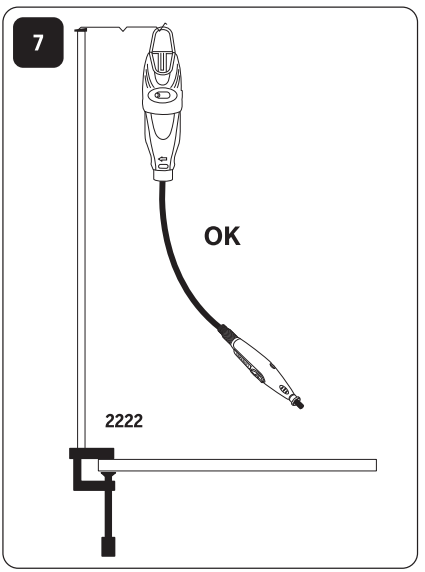

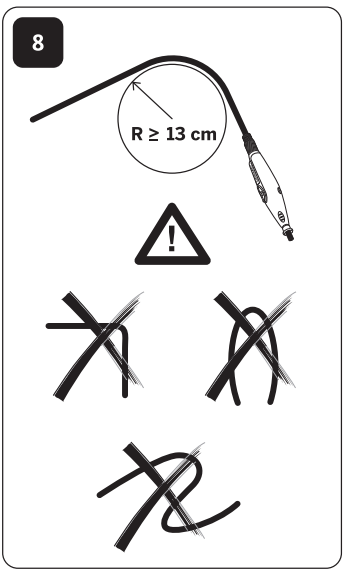

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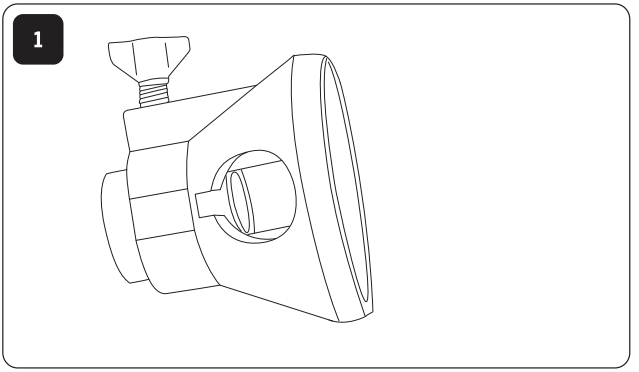

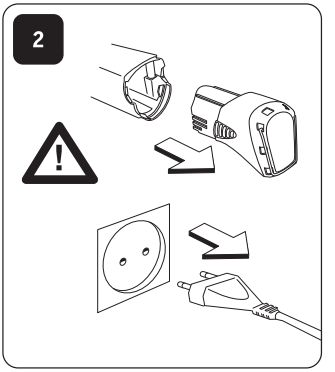

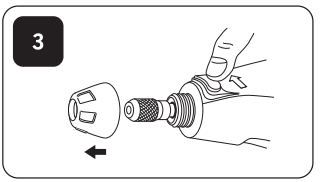

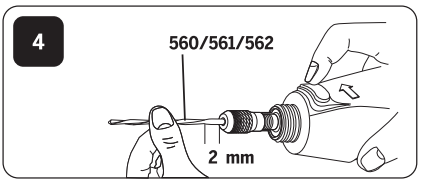

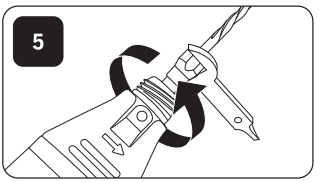

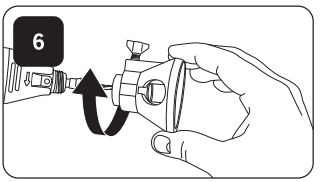

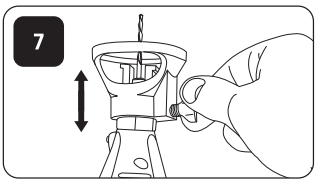

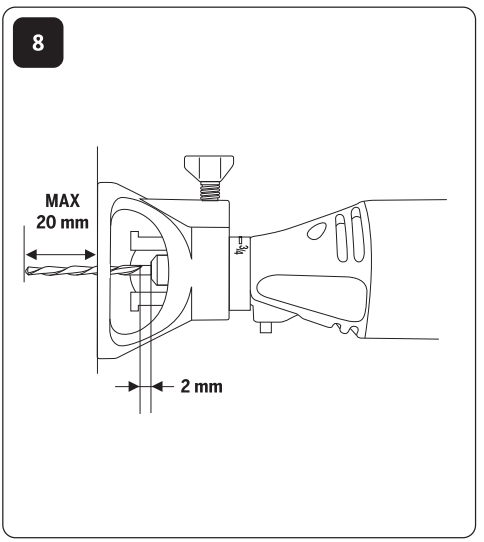

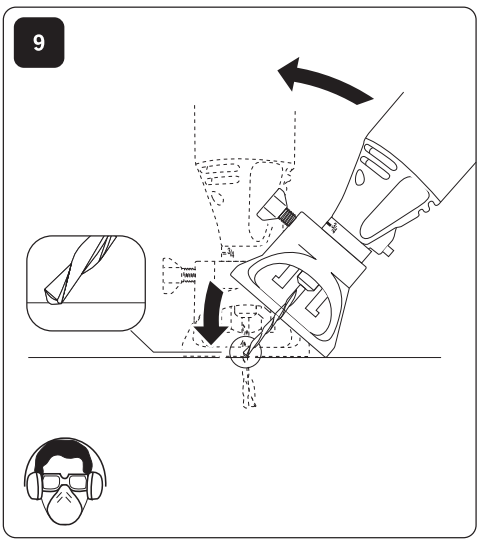

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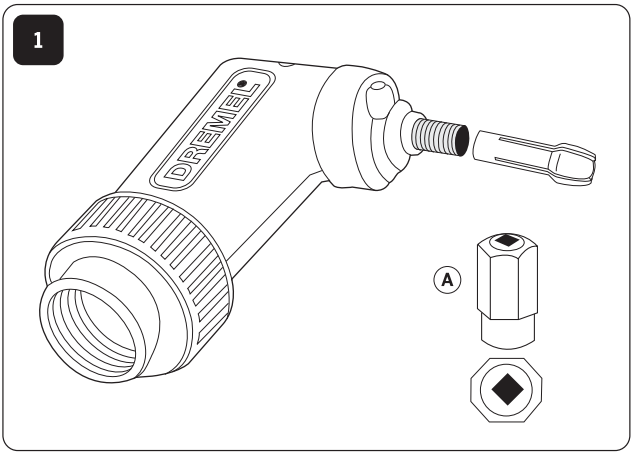

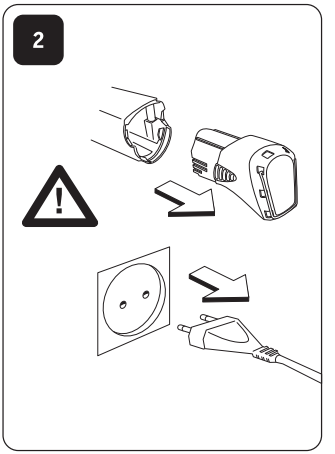

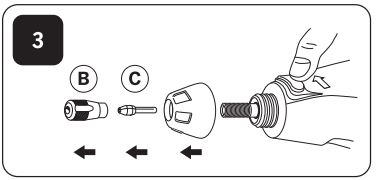

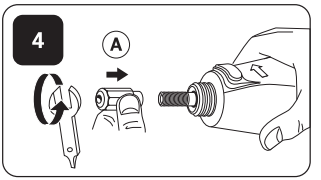

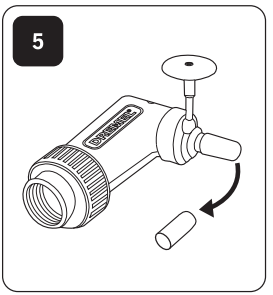

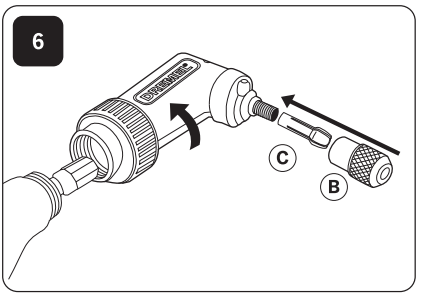

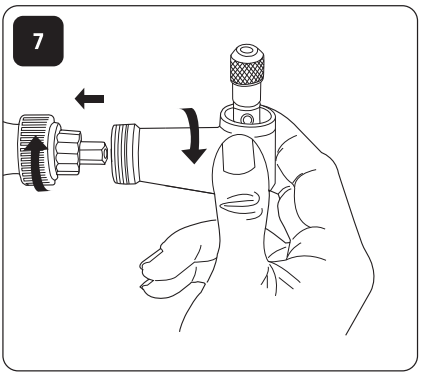

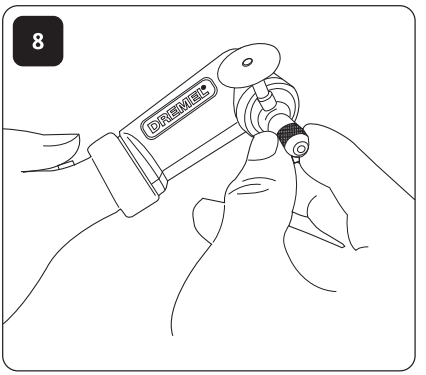

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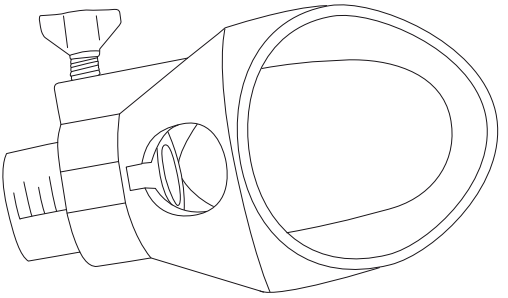

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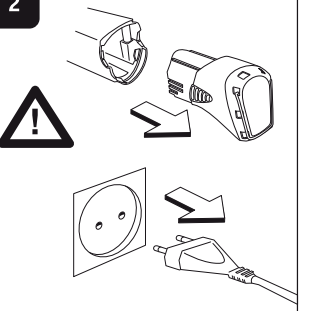

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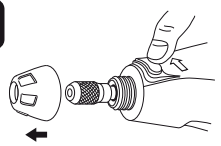

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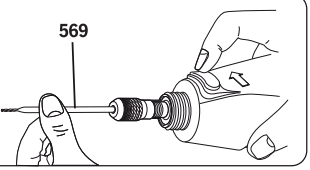

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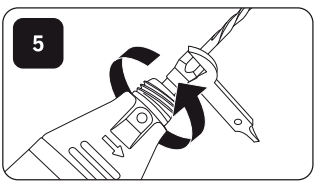

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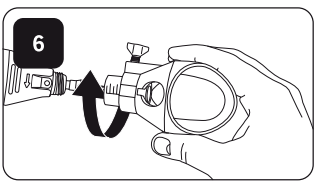

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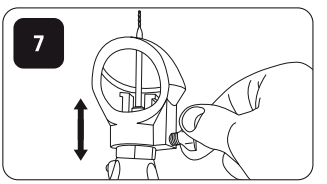

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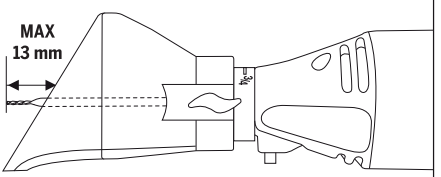

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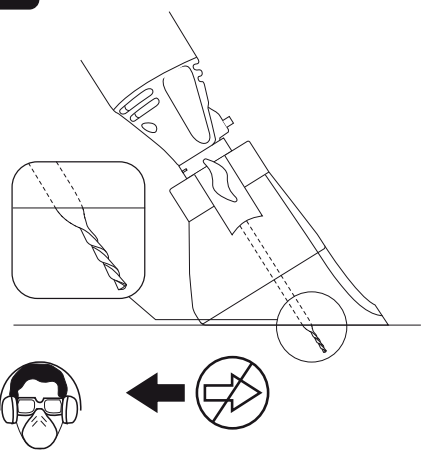

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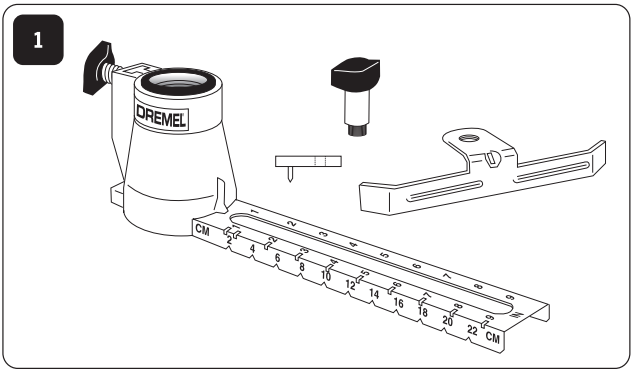
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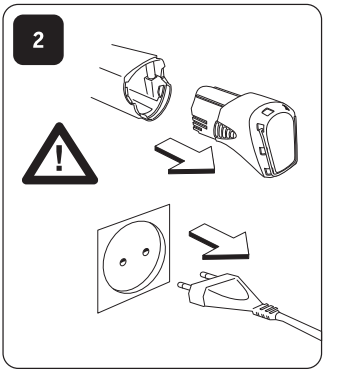
DREMEL
CM
2 4 6 8 10 12 14 16 18 20 22 CM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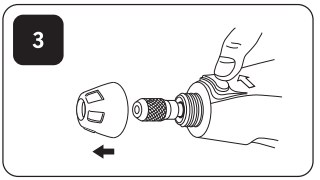
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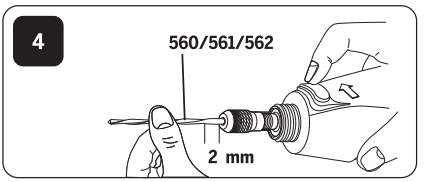
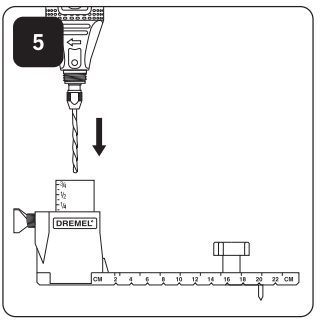

4
560/561/562
2 mm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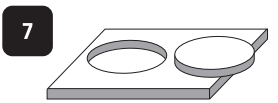
DREMEL
CM 2 3 4 5 6 8 10 12 14 16 18 20 22 CM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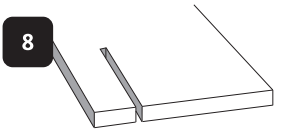
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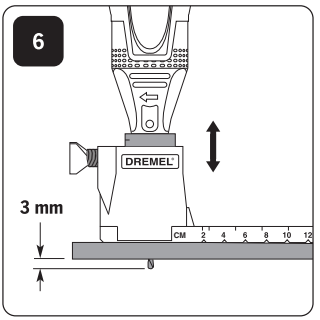
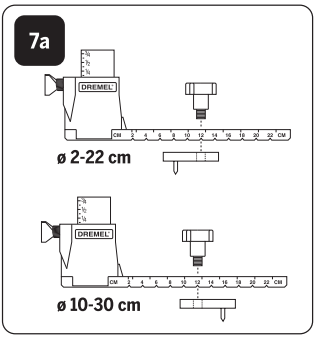
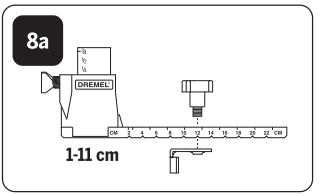
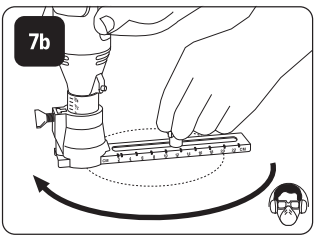

6
DREMEL
3 mm
CM 2 4 6 8 10 12


7a
DREMEL
CM 2 3 4 5 6 8 10 12 14 16 18 20 22 CM
ø 2-22 cm
DREMEL
CM 2 3 4 5 6 8 10 12 14 16 18 20 22 CM
ø 10-30 cm


8a
DREMEL
CM 2 3 4 5 6 8 10 12 14 16 18 20 22 CM
1-11 cm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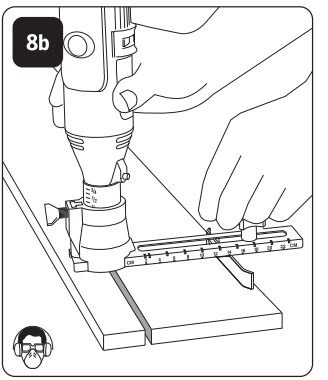
8b

GB

CE DECLARATION OF CONFORMITY We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents: EN60745, EN55014, in accordance with the provisions of the directives 2006/95/EC, 2004/108/EC, 2006/42/EC.
NOISE/VIBRATION Measured in accordance with EN60745 the sound pressure level of this tool is 72,0 dB(A) and the sound power level 83,0 dB(A) (standard deviation: 3 dB), and the vibration * m/s^2 (hand-arm method).

NOTE: The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. It may also be used in a preliminary assessment of exposure.

⚠ WARNING **The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which you use the tool.**
Make an estimation of the exposure in the actual conditions of use and identify the safety measures for personal protection accordingly (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).
Technical file at: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

DE

CE KONFORMITÄTSERKLÄRUNG Wir erklären in alleiniger Verantwortung, daß dieses Produkt mit den folgenden Normen oder normativen Dokumenten übereinstimmt: EN60745, EN55014, gemäß den Bestimmungen der Richtlinien 2006/95/EC, 2004/108/EC, 2006/42/EC.
GERÄUSCH/VIBRATION Gemessen gemäß EN60745 beträgt der Schalldruckpegel dieses Gerätes 72,0 dB(A) und der Schalleistungspegel 83,0 dB(A) (Standard-abweichung: 3 dB), und die Vibration * m/s^2 (Hand-Arm Methode).

HINWEIS: Der angegebene Schwingungs-Gesamtwert ist entsprechend einem genormten Prüfverfahren gemessen worden und kann für den Vergleich von Werkzeugen miteinander verwendet werden. Er eignet sich auch für eine vorläufige Einschätzung der Schwingungsbelastung.

⚠ WARNUNG **In Abhängigkeit von der Art, in der das Werkzeug verwendet wird, kann die Schwingungsemission während der eigentlichen Arbeit von dem angegebenen Gesamtwert abweichen.** Um die Exposition unter den tatsächlich Anwendungsbedingungen abzuschätzen und zu bestimmen, welche persönlichen Schutzmaßnahmen erforderlich sind, sollten zusätzlich zu den Bedienungszeiten auch die Zeiten berücksichtigt werden, in denen das Gerät abgeschaltet ist oder im Leerlauf läuft.
Technische Unterlagen bei: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

FR

CE DÉCLARATION DE CONFORMITÉ Nous déclarons sous notre propre responsabilité que ce produit est en conformité avec les normes ou documents normalisés suivants: EN60745, EN55014, conforme aux réglementations 2006/95/EC, 2004/108/EC, 2006/42/EC.
BRUIT/VIBRATION Mesuré selon EN60745 le niveau de la pression sonore de cet outil est 72,0 dB(A)) et le niveau de la puissance sonore 83,0 dB(A) (déviation standard: 3 dB), et la vibration * m/s^2 (méthode main-bras).

REMARQUE : La valeur totale des vibrations déclarées, mesurée selon une méthode de test standard, peut être utilisée pour comparer un outil à un autre. Elle peut également être utilisée dans le cadre d'une évaluation préliminaire du degré d'exposition.

⚠ ATTENTION **L'émission de vibrations lors de l'utilisation de l'outil électroportatif peut différer de la valeur totale déclarée selon la manière dont vous l'utilisez.** Estimez l'exposition à ces dernières dans les conditions réelles d'utilisation, qui vous permettra d'identifier les mesures de sécurité à prendre en matière de protection personnelle (en tenant compte de l'ensemble des parties du cycle d'exploitation, telles que le moment où l'outil est éteint et celui où il est en veille, en plus de celui où il est activé).
Dossier technique auprès de: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

IT

CE DICHIARAZIONE DI CONFORMITÀ Dichiaramo, assumendo la piena responsabilità di tale dichiarazione, che il prodotto è conforme alle seguenti normative e ai relativi documenti: EN60745, EN55014 in base alle prescrizioni delle direttive 2006/95/EC, 2004/108/EC, 2006/42/EC.
RUMOROSITÀ/VIBRAZIONE Misurato in conformità al EN60745 il livello di pressione acustica di questo utensile è 72,0 dB(A) ed il livello di potenza acustica 83,0 dB(A)) (deviazione standard: 3 dB), e la vibrazione * m/s^2 (metodo mano-braccio).

NOTA: Il valore totale dichiarato di vibrazioni è stato misurato con un metodo di test standard e può essere usato per confrontare un utensile con un altro. Esso può inoltre essere usato per una valutazione preliminare dell'esposizione.

⚠ ATTENZIONE **L'emissione di vibrazioni durante l'utilizzo dell'elettroutensile può variare dal valore totale dichiarato in base al modo in cui si utilizza l'utensile.** Fare una stima dell'esposizione nelle condizioni di utilizzo attuali e, di conseguenza, identificare le misure di sicurezza per la protezione personale (prendendo in considerazione tutte le parti del ciclo di funzionamento come le volte in cui l'utensile viene spento e quando funziona in folle oltre al tempo di azionamento).
Fascicolo tecnico presso: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

NL

CE CONFORMITEITSVERKLARING Wij verklaren, dat dit product voldoet aan de volgende normen of normatieve documenten: EN60745, EN55014, overeenkomstig de bepalingen van de richtlijnen 2006/95/EC, 2004/108/EC, 2006/42/EC.
GELUID/VIBRATIE Gemeten volgens EN60745 bedraagt het geluidsdrukniveau van deze machine 72,0 dB(A) en het geluidsvermogen-niveau 83,0 dB(A) (standaard deviatie: 3 dB), en de vibratie * m/s^2 (hand-arm methode).

OPMERKING: De totaal opgegeven trillingsemissie is gemeten aan de hand van een standaard testmethode en kan worden gebruikt om gereedschap onderling met elkaar te vergelijken. De informatie mag ook worden gebruikt om een voorlopige inschatting van de mate van blootstelling te maken.

⚠ LET OP **De trillingsemissie tijdens het daadwerkelijke gebruik van het gereedschap kan afwijken van de opgegeven totale waarde. Dit is afhankelijk van de manier waarop u het gereedschap gebruikt.** Maak een inschatting van de mate waarin u tijdens daadwerkelijk gebruik aan trillingen wordt blootgesteld en stel aan de hand hiervan de persoonlijke beschermingsmaatregelen vast (waarbij u rekening houdt met alle onderdelen van de bedrijfscyclus, waaronder de tijden dat het gereedschap is uitgeschakeld of is ingeschakeld maar niet wordt gebruikt, evenals de blootstellingstijd).
Technisch dossier bij: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

DA

CE KONFORMITETSERKLÆRING Vi erklærer under almindeligt ansvar, at dette produkt er i overensstemmelse med følgende normer eller normative dokumenter: EN60745, EN55014, i henhold til bestemmelserne i direktiverne 2006/95/EC, 2004/108/EC, 2006/42/EC
STØJ/VIBRATION Måles efter EN60745 er lydtrykniveau af dette værktøj 72,0 dB(A) og lydeffektniveau 83,0 dB(A) (standard deviation: 3 dB), og vibrationsniveauet * m/s^2 (hånd-arm metoden).

Bemærk: Den angivne samlede vibrationsemissionsværdi er målt i overensstemmelse med en standardtestmetode og kan bruges til sammenligning af to stykker værktøj. Den kan også bruges i forbindelse med en foreløbig eksponeringsvurdering.

⚠ ADVARSEL **Under faktisk brug af el-værktøjet kan vibrationsemissionen afvige fra den angivne samlede værdi afhængigt af, hvordan værktøjet bruges.** Foretag en eksponeringsvurdering i de omgivelser, hvor værktøjet skal bruges, og tag derefter de nødvendige sikkerhedsforanstaltninger (alle aspekter af arbejdsforløbet skal indgå i vurderingen; også de perioder, hvor værktøjet er slukket eller kører i tomgang).
Teknisk dossier hos: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

SV

CE KONFORMITETSFÖRKLARING Vi intygar och ansvarar för, att denna produkt överensstämmer med följande norm och dokument: EN60745, EN55014, enl. bestämmelser och riktlinjema 2006/95/EC, 2004/108/EC, 2006/42/EC.
LJUD/VIBRATION Ljudtrycksnivån som uppmätts enligt EN60745 är på denna maskin 72,0 dB(A) och ljudeffektnivån 83,0 dB(A) (standard deviation: 3 dB), och vibration * m/s² (hand-arm metod).

NOTA: El valor mencionado correspondiente a la vibración total se ha medido de acuerdo con un método de realización de pruebas estándar y se puede utilizar para comparar dos herramientas. También es posible utilizarlo en una evaluación preliminar de exposición.

⚠ VARNING **Beroende på hur verktyget används kan vibrationerna vid användning av verktyget skilja sig från det angivna totala vibrationsvärdet.** Gör en uppskattning av exponeringen under verkliga användningsförhållanden och vidta skyddsåtgärder för personalen därefter (ta hänsyn till alla delar i användningsförloppet, som när verktyget stängs av och utöver starttiden, när det går på tomgång).
Teknisk tillverkningsdokumentation finns hos: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

NO

CE SAMSVARSERKLÆRING Vi erklærer at det er under vårt ansvar at dette produkt er i samsvar med følgende standarder eller standard- dokumenter: EN60745, EN55014, i samsvar med reguleringer 2006/95/EC, 2004/108/EC, 2006/42/EC.
STØY/VIBRASJON Målt ifølge EN60745 er lydtrykknivået av dette verktøyet 72,0 dB(A) og lydstyrkenivået 83,0 dB(A) (standard deviasjon: 3 dB), og vibrasjonsnivået * m/s² (hånd-arm metode).

NB: Den oppgitte totalverdien for virbrasjon er målt i henhold til en standardisert testmetode, og kan brukes for å sammenligne et verktøy med et annet. Den kan også brukes til en foreløpig vurdering av eksponeringen.

⚠ ADVARSEL **Vibrasjonsutstrålingen under faktisk bruk av elektroverktøyet kan avvike fra de oppgitte verdiene, avhengig av måten verktøyet brukes på.** Foreta et overslag over eksponeringen ved de faktiske bruksbetingelsene, og fastsett sikkerhetstiltak for personlig beskyttelse i henhold til dette (ta hensyn til alle deler av driftssyklusen, så som tidspunktene når verktøyet er slått av og når det går på tomgang i henhold til utløsertiden).
Tekniske underlag hos: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

FI

CE TODISTUS STANDARDINMUKAISUUDESTA Todistamme täten ja vastaamme yksin siitä, että tämä tuote on allaluoteltujen standardien ja standardoimisasiakirjojen vaatimusten mukainen EN60745, EN55014, seuraavien sääntöjen mukaisesti 2006/95/EC, 2004/108/EC, 2006/42/EC.
MELU/TÄRINÄ Mitattuna EN60745 mukaan työkalun melutaso on 72,0 dB(A) ja yleensä työkalun äänen voimakkuus on 83,0 dB(A) (keskihajonta: 3 dB), ja tärinän voimakkuus * m/s² (käsi-käsivarsi metodi).

HUOM.: Ilmoitettu värinän kokonaisarvo on mitattu vakiomenetelmällä ja sitä voidaan käyttää eri työkalujen vertailuun keskenään. Sitä voidaan myös käyttää altistuksen etukäteisarviointiin.

⚠ VAROITUS **Värinä sähkötyökalun todellisen käytön aikana voi poiketa ilmoitetusta kokonaisarvosta sen mukaan, millä tavalla työkalua käytetään.** Arvioi altistus todellisissa käyttöoloissa ja tunnista sen mukaiset tarvittavat toimet henkilökohtaista suojaa varten (ottaen huomioon kaikki käyttösyklin osat, kuten ajat, jolloin työkalu on sammutettu tai vapaalla, varsinaisen käytön lisäksi).
Tekninen tiedosto kohdasta: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

ET

CE VASTAVUSDEKLARATSIOON Kinnitame ainuvastutajana, et see toode vastab järgmistele standarditele või normdokumentidele: EN60745, EN55014 vastavalt direktiivide 2006/95/EC, 2004/108/EC, 2006/42/EC.
MÜRA/VIBRATSIOON Vastavalt kooskõlas normiga EN60745 läbi viidud mõõtmistele on antud seadme helirõhk 72,0 dB(A) jahelitugevus 83,0 dB(A) (standardkõrvalekalle: 3 dB), ja vibratsioon 2.5 m/s² (käe-randme-meetod).

MÄRKUS: Vibratsiooni deklareeritud koguväärtus on mõõdetud vastavalt standardsele testimismeetodile ja seda võib kasutada ühe tööriista võrdlemisel teisega. Seda võib kasutada ka vibratsiooniga kokkupuute esmasel hindamisel.

⚠ ETTEVAATUST **Vibratsiooni emissioon seadme kasutamisel võib erineda deklareeritud koguväärtusest, olenevalt sellest, millisel viisil tööriista kasutatakse.** Hinnake ligikaudselt vibratsiooniga kokkupuute aega tegelikes kasutustingimustes ja määrake kindlaks sobivad ohutusmeetmed isiklikuks kaitseks (võttes arvesse kõiki töötsükli etappe nagu nt aega, mil tööriist on välja lülitatud ja aega, mil see töötab tühjalt lisaks käivitusajale).
Tehniline toimik saadaval aadressil: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

LT

CE ATITIKTIES DEKLARACIJA Mes atsakingai pareiškiame, kad šis gaminys atitinka tokius standartus ir normatyviniusdokumentus: EN60745, EN55014 pagal reglamentų 2006/95/EC, 2004/108/EC, 2006/42/EC.
TRIUKŠMINGUMAS/VIBRACIJA Šio prietaiso triukšmingumas buvo išmatuotas pagal EN60745 reikalavimus keliamo triukšmo garso slėgio lygis siekia 72,0 dB(A) ir akustinio galingumo lygis 83,0 dB(A) (standartinis nuokrypis: 3 dB), ir vibracijos pagreitis rankos plaštakos srityje tipiniu atveju yra mažesnis, kaip * m/s².

PASTABA: deklaruotasis bendrasis vibracijos dydis buvo išmatuotas pagal standartinę bandymų metodiką ir gali būti naudojamas vienam įrankiui palyginti su kitu. Jis taip pat gali būti panaudotas preliminariai įvertinant naudotojui tenkančią vibracijos dozę.

⚠ ĮSPĖJIMAS **Naudojant elektrinį įrankį susidaranti vibracija gali skirtis nuo bendrojo deklaruojamo vibracijos dydžio priklausomai nuo to, kokiu būdu naudojate įrankį.** Įvertinkite vibracijos dozę konkrečiu atveju ir parinkite atitinkamas asmens apsaugos priemones atsižvelgdami į visas darbo ciklo dalis, tame tarpe ir į laiką, per kurį prietaisas buvo išjungtas arba veikė tuščiąja eiga.
Techninė byla laikoma: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

LV

CE DEKLARĀCIJA PAR ATBILSTĪBU STANDARTIEM Mēs ar pilnu atbildību paziņojam, ka šis izstrādājums atbilst standartiem vai normatīvajiem dokumentiem EN60745, EN55014 un ir saskaņā ar direktīvām 2006/95/EC, 2004/108/EC, 2006/42/EC.
TROKSNIS/VIBRĀCIJA Saskaņā ar standartu EN60745 noteiktais instrumenta radītā trokšņa skaņas spiediena līmenis ir 72,0 dB(A) un skaņas jaudas līmenis ir 83,0 dB(A) (pie tipiskās izkliedes: 3 dB), un vibrācijas intensitāte ir * m/s² (strādājot rokas relīmā).

PIEZĪME. Kopējā vibrācijas paātrinājuma vērtība ir izmērīta saskaņā ar standarta metodi, un šo vērtību var izmantot, lai salīdzinātu dažādus instrumentus. To var lietot sākotnējā instrumenta iedarbības novērtējumā.

⚠ UZMANĪBU **Elektroinstrumenta lietošanas laikā radušās vibrācijas paātrinājuma vērtība var atšķirties no norādītās kopējās vērtības atkarībā no instrumenta izmantošanas veida.** Nosakiet instrumenta radīto iedarbību faktiskajos izmantošanas apstākļos un izvēlieties attiecīgus drošības pasākumus personiskai aizsardzībai (ņemot vērā visus darba cikla faktorus, piemēram, cik reižu instruments ir izslēgts un cik ilgi pēc ieslēgšanas tas darbojas brīvgaitā).
Tehniskā dokumentācija no: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

AR

إعلان مطابقة المعايير الأوربية (CE) إننا نقر تحت مسئوليتنا الخاصة بأن هذا المنتج يتطابق مع المعايير أو الوثائق القياسية التالية: EN60745، EN55014 بموجب الشروط الواردة في التوجيهات 2006/95/EC، 2004/108/EC، 2006/42/EC.
يتم قياس **الضوضاء/الاهتزاز** بما يتفق مع المعيار EN60745، ويصل مستوى ضغط الصوت في هذه الأداة إلى ٧٢ ديسيبل (أ) ويصل مستوى طاقة الصوت إلى ٨٣ ديسيبل (أ) (الانحراف المعياري: ٣ ديسيبل) والاهتزاز * متر/ثانية² (طريقة ذراع اليد).

ملاحظة: يتم قياس قيمة الاهتزاز الإجمالية المعلنة بما يتفق مع طريقة فحص قياسية ويمكن الاستعانة بها في مقارنة أداة بأداة أخرى، ويمكن استخدامها أيضًا في عملية تقييم أولي للتعرض.

⚠ تحذير **يتفاوت انبعاث الاهتزاز أثناء الاستخدام الفعلي للأداة الكهربائية عن القيمة الإجمالية المعلنة وذلك حسب الطرق التي تستخدم من خلالها الأداة.**
قم بتقدير التعرض في الظروف الفعلية للاستخدام، وحدد إجراءات الأمان اللازمة للحماية الشخصية وفقًا لذلك التقدير (مع الأخذ في الاعتبار جميع أجزاء دورة التشغيل مثل الأوقات التي يتم فيها إيقاف تشغيل الأداة والتي يتم فيها تشغيلها بسرعة بطيئة بالإضافة إلى وقت التشغيل).
الملف الفني على: SKIL Europe BV (PT-SEU/PJE), 4825 BD Breda, NL.

CE 10 Skil Europe B.V. A. v.d. Kloot

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8200

1 1,9 m/s²
2 1,1 m/s²
3 5,6 m/s²
4 2,6 m/s²
5 1,5 m/s²

	1	2	3	4	5
GB	While drilling	While polishing	Artificial Wheel	While sanding	Uncertainty (K)
DE	Beim Bohren	Beim Polieren	Beim Abbürsten	Beim Sandpapierschleifen	Unsicherheit (K)
FR	Au cours du perçage	Polissage	Brossage	Au cours du ponçage	Incertitude (K)
IT	In perforazione	In lucidatura	In spazzolatura	In sabbiatura	Non noto (K)
NL	Bij het boren	Tijdens het polijsten	Tijdens het bewerken met staalborstel	Bij het schuren	Onzekerheid (K)
DA	Under boringen	Ved polering	Ved stålbørstning	Under slibningen	Usikkerhed (K)
SV	Vid borrning	Vid polering	Vid arbeten med stålborste	Vid sandpappersslipning	Osäkerhet (K)
NO	Under drilling	Ved polering	Ved stålbørsting	Under sliping med sandpapir	Usikkert (K)
FI	Porattaessa	Kiillotettaessa	Käytettäessä teräsharjaa	Hiottaessa	Epävarmuus (K)
ET	Puurimisel	Poleerimisel	Terasharjamisel	Lihvimisel	Määramatus (K)
LT	Kai gręžiama	Poliruojant	Šveičiant vieliniu šepečiu	Kai šlifuojama	Neaiškumas (K)
LV	Urbšanas laikā	Pulējot	Pulējot ar metāla suku	Slīpēšanas laikā	Izkliede (K)
AR	أثناء الحفر	أثناء الصقل	عجلة صناعية	أثناء الصنفرة بالرمل	الشك (K)

ORIGINAL INSTRUCTIONS

USED SYMBOLS

READ THESE INSTRUCTIONS

USE HEARING PROTECTION

USE EYE PROTECTION

USE A DUST MASK

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

WORK AREA SAFETY

a. **Keep work area clean and well lit.** *Cluttered and dark areas invite accidents.*

b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*

c. **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

ELECTRICAL SAFETY

a. **Power tool plug must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*

c. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*

d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*

e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f. **If operating a power tool in a damp location is unavoidable, use an earth leakage circuit breaker (ELCB).** *Use of an earth leakage circuit breaker reduces the risk of electric shock.*

PERSONAL SAFETY

a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*

b. **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*

c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

d. **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*

f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of these devices can reduce dust related hazards.*

h. **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

POWER TOOL USE AND CARE

a. **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*

b. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or**

these instructions to operate the power tool. *Power tools are dangerous in the hands of untrained users.*

e. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*

f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g. **Use the power tool, accessories and tool bits etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

BATTERY TOOL USE AND CARE

a. **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*

b. **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*

c. **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or a fire.*

d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** *Liquid ejected from the battery may cause irritation or burns.*

SERVICE

a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

SAFETY INSTRUCTIONS FOR ALL OPERATIONS

SAFETY WARNINGS COMMON FOR GRINDING, SANDING, WIRE BRUSHING, POLISHING OR ABRASIVE CUTTING-OFF OPERATIONS

a. **This power tool is intended to function as a grinder, sander, wire brush, polisher or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

b. **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** *Just because the accessory can be attached to your power tool, it does not assure safe operation.*

c. **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** *Accessories running faster than their rated speed can break and fly apart.*

d. **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** *Incorrectly sized accessories cannot be adequately guarded or controlled.*

e. **The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool.** *Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.*

f. **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing anaccessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** *Damaged accessories will normally break apart during this test time.*

g. **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** *The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.*

h. **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** *Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.*

i. **Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** *Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.*

j. **Position the cord clear of the spinning accessory.** *If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.*

k. **Never lay the power tool down until the accessory has come to a complete stop.** *The spinning accessory may grab the surface and pull the power tool out of your control.*

l. **Do not run the power tool while carrying it at your side.** *Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.*

m. **Regularly clean the power tool's air vents.** *The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.*

n. **Do not operate the power tool near flammable materials.** *Sparks could ignite these materials.*
o. **Do not use accessories that require liquid coolants.** *Using water or other liquid coolants may result in electrocution or shock.*

KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a. **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** *The operator can control torque reactions or kickback forces, if proper precautions are taken.*
b. **Never place your hand near the rotating accessory.** *Accessory may kickback over your hand.*
c. **Do not position your body in the area where power tool will move if kickback occurs.** *Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.*
d. **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** *Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.*
e. **Do not attach a saw chain woodcarving blade or toothed saw blade.** *Such blades create frequent kickback and loss of control.*

SAFETY WARNINGS SPECIFIC FOR GRINDING AND ABRASIVE CUTTING-OFF OPERATIONS

a. **Use only wheel types that are recommended for your power tool and the specific guard designed for the selected wheel.** *Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.*
b. **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** *Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.*
c. **Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** *Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.*
d. **Do not use worn down wheels from larger power tools.** *Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.*

ADDITIONAL SAFETY WARNINGS SPECIFIC FOR ABRASIVE CUTTING OFF OPERATIONS

a. **Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** *Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.*
b. **Do not position your body in line with and behind the rotating wheel.** *When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.*
c. **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur.** *Investigate and take corrective action to eliminate the cause of wheel binding.*
d. **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully reenter the cut.** *The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.*
e. **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** *Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.*
f. **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** *The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.*

SAFETY WARNINGS SPECIFIC FOR SANDING OPERATIONS

a. **Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** *Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.*

SAFETY WARNINGS SPECIFIC FOR POLISHING OPERATIONS

a. **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** *Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.*

SAFETY WARNINGS SPECIFIC FOR WIRE BRUSHING OPERATIONS

a. **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the**

wires by applying excessive load to the brush. *The wire bristles can easily penetrate light clothing and/or skin.*

b. If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard. *Wire wheel or brush may expand in diameter due to work load and centrifugal forces.*

c. Do not exceed 15000 min^{-1} when using wire brushes.

⚠ WARNING Do not work with materials containing asbestos (asbestos is considered carcinogenic).

⚠ WARNING Take protective measures when during work dust can develop that is harmful to one's health, combustible or explosive (some dusts are considered carcinogenic); wear a dust mask and work with dust/ chip extraction when connectable.

ENVIRONMENT

DISPOSAL

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

ONLY FOR EUROPEAN COUNTRIES

Do not dispose of power tools into household waste! According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

SPECIFICATIONS

GENERAL SPECIFICATIONS

Voltage Rating . . . . . 10,8 V
Amperage Rating . . . . . 1,3–2,0 Ah
No Load Speed. . . . . n_0 5000–30000 min^{-1}
Collet Capacity . . . . . 0,8 mm, 1,6 mm, 2,4 mm, 3,2 mm

SPECIFICATIONS CHARGER
Input. . . . . 230 V, 50–60 Hz, 26 W
Output . . . . . 3,6 V - 10,8 V ⎓, 1,5 A

EXTENSION CORDS

Use completely unrolled and safe extension cords with a capacity of 5 Amps.

ASSEMBLY

ALWAYS TURN OFF THE TOOL BEFORE CHANGING ACCESSORIES, CHANGING COLLETS, OR SERVICING THE TOOL.

BATTERY CHARGE CONDITION INDICATOR LIGHTS

Your tool is equipped with charge condition indicator lights (picture 1 D). The indicator lights shows the charge condition of the battery.

3 of 3 Solid LED's = 67-100%
2 of 3 Solid LED's = 34-66%
1 of 3 Solid LED's = 16-33%
1 of 3 Flashing LED's = 0-15%

3 "side to side" lights – battery charge is too low to run tool. Recharge the battery.
3 "flashing" lights – battery is too hot for use. Turn tool off and let battery cool down.

Your tool is equipped with advanced electronics that protect the Li-Ion cells in the battery from damage due to excessive operating temperature and/or current draw. If the warning symbol illuminates red and/or the tool stops working during heavy use, this most likely indicates that the Li-Ion cells are near their maximum operating temperature, and the battery pack should either be changed or allowed to cool to ambient temperature before continuing use. If the tool automatically turns off due to overload conditions, the switch must be turned off for a few seconds to allow the circuit to reset before continuing use.

IMPORTANT CHARGING NOTES

1. The charger was designed to fast charge the battery only when the battery temperature is between 32°F (0°C) and 113°F (45°C). If the battery pack is too hot or too cold, the charger will not fast charge the battery. (This may happen if the battery pack is hot from heavy use). When the battery temperature returns to between 32°F (0°C) and 113°F (45°C), the charger will automatically begin charging.
2. A substantial drop in operating time per charge may mean that the battery pack is nearing the end of its life and should be replaced.
3. Remember to unplug charger during storage period.

NOTE: Use of chargers or battery packs not sold by Dremel will void the warranty.

CHARGING BATTERY PACK (MODEL 875)

Plug charger cord into your standard power outlet.
With no battery pack inserted, the charger's green indicator light will go ON. This indicates the charger is receiving power and the charger is ready for operation.
When you insert the battery pack into the charger, the charger's green indicator light will begin to "BLINK". This indicates that the battery is receiving a fast charge.

PICTURE 9
A. Battery pack
B. Charger
C. Green light

When the indicator light stops “BLINKING” (and becomes a steady green light) fast charging is complete. The battery pack is fully charged and can be removed from the charger.
When you begin the charging process of the battery pack, a steady green light could also mean the battery pack is too hot or too cold.
Fast charging is only possible when the temperature range of the battery pack is between 0°C and 45°C.
When needed, the internal fan of the charger will turn on to aid the charging process and speed.
As soon as the battery pack reaches the correct temperature range, the battery charger will automatically switch to fast charging.
The battery pack may be used even though the light may still be blinking. The light may require more time to stop blinking depending on temperature.
The purpose of the green light is to indicate that the battery pack is fast-charging. It does not indicate the exact point of full charge. The light will stop blinking in less time if the battery pack was not completely discharged.
If the green indicator light is “ON”, the battery pack cannot accept a charge.

GENERAL

The Dremel multitool is a high quality precision tool that can be used to perform detailed and intricate tasks. The wide range of Dremel accessories and attachments allow you to perform a large variety of tasks. These include tasks such as sanding, carving, engraving, routing, cleaning and polishing.

PICTURE 1
A. Shaft lock button
B. On/Off switch
C. Hanger
D. Battery level indicator
E. Variable speed switch
F. Battery pack
G. Battery release tabs
H. Ventilation openings
I. Housing
J. Battery pack
K. Battery release tabs
L. Shaft
M. Housing cap or EZ Twist™ integrated wrench/nose cap
N. Collet nut
O. Collet
P. Collet wrench

COLLETS

The Dremel accessories available for the multitool come with various shank sizes. Four size collets are available to accommodate the different shank sizes. Collet sizes are identified by the rings on the back of the collet.

PICTURE 2
A. Collet nut
B. 3.2 mm Collet without ring (480)
C. 2.4 mm Collet with three rings (481)
D. 1.6 mm Collet with two rings (482)
E. 0.8 mm Collet with one ring (483)
F. Indentification rings

NOTE: Some multitool kits may not include all four collet sizes. Collets are available separately.

Always use the collet that matches the shank size of the accessory you plan to use. Do not force a larger diameter shank into a smaller collet.

CHANGING COLLETS

PICTURE 3
A. Collet wrench
B. Shaft lock button
C. Collet nut
D. To loosen
E. To tighten

1. Press the shaft lock button, hold down and rotate the shaft by hand until it engages the shaft lock. *Do not engage the shaft lock button while multitool is running.*
2. With the shaft lock button engaged, loosen and remove the collet nut. Use the collet wrench if necessary.
3. Remove the collet by pulling it free from the shaft.
4. Install the appropriate size collet fully into the shaft and reinstall the collet nut finger tight. Do not fully tighten the nut when there is no bit or accessory installed.

CHANGING ACCESSORIES

1. Press the shaft lock button and rotate the shaft by hand until it engages the shaft lock. *Do not engage the shaft lock button while multitool is running.*
2. With the shaft lock button engaged, loosen (do not remove) the collet nut. Use the collet wrench if necessary.
3. Insert the bit or accessory shank fully into the collet.
4. With the shaft lock button engaged, finger tighten the collet nut until the bit or accessory shank is gripped by the collet.

NOTE: Be sure to read the instructions supplied with your Dremel accessory for further information on its use.

Use only Dremel tested, high performance accessories.

EZ TWIST™ INTEGRATED WRENCH/NOSE CAP

PICTURE 4
F. EZ Twist™ integrated wrench/nose cap (not available on every 8200 tool)

This nose cap has an integrated wrench allowing you to loosen and tighten the collet nut without the use of the standard collet wrench.

1. Unscrew the nose cap from the tool, line-up the steel insert on inside of the cap with the collet nut.

2. With the shaft lock engaged twist nose cap counter clockwise to loosen the collet nut. Do not engage the shaft lock button while multitool is running.
3. Insert the bit or accessory shank fully into the collet.
4. With the shaft lock engaged twist nose cap clockwise to tighten the collet nut.
5. Screw the nose cap back into its original position.
   NOTE: Be sure to read the instructions supplied with your Dremel accessory for further information on its use.

Use only Dremel tested, high performance accessories.

BALANCING ACCESSORIES

For precision work, it is important that all accessories be in good balance (much the same as the tires on your automobile). To true up or balance an accessory, slightly loosen collet nut and give the accessory or collet a 1/4 turn. Re tighten collet nut and run the Rotary Tool. You should be able to tell by the sound and feel if your accessory is running in balance. Continue adjusting in this fashion until best balance is achieved.

USE

GETTING STARTED

The first step in using the multitool is to get the "feel" of it. Hold it in your hand and feel its weight and balance. Feel the taper of the housing. This taper permits the tool to be grasped much like a pen or pencil.
Always hold the tool away from your face. Accessories can be damaged during handling and can fly apart as they come up to speed.
When holding tool, do not cover the ventilation openings with your hand. Blocking the ventilation openings could cause the motor to overheat.
IMPORTANT! Practice on scrap material first to see how the tool's high-speed action performs. Keep in mind that your multitool will perform best by allowing the speed, along with the correct Dremel accessory and attachment, to do the work for you. Do not put pressure on the tool during use, if possible. Instead, lower the spinning accessory lightly to the work surface and allow it to touch the point at which you want to begin. Concentrate on guiding the tool over the work using very little pressure from your hand. Allow the accessory to do the work. Usually it is better to make a series of passes with the tool rather than to do the entire job with one pass. A gentle touch gives the best control and reduces the chance of error.

HOLDING THE TOOL

For best control in close work, grip the multitool like a pencil between your thumb and forefinger. PICTURE 5
The "golf" grip method is used for heavier operations such as grinding or cutting. PICTURE 6

OPERATING SPEEDS

To select the right speed for each job, use a practice piece of material.

SLIDE "ON/OFF" SWITCH
The tool is switched "ON" by the slide switch located on the top side of the motor housing.
TO TURN THE TOOL "ON", slide the switch button forward.
TO TURN THE TOOL "OFF", slide the switch button backward.

HIGH PERFORMANCE MOTOR
Your tool is equipped with a high performance rotary tool motor. This motor expands the versatility of the rotary tool by driving additional Dremel attachments.

ELECTRONIC MONITORING
Your tool is equipped with an internal electronic monitoring system that provides a “soft start”, which will reduce the stresses that occur from a high torque start. The system also helps to maximize motor and battery performance by cutting the voltage to the tool when stall conditions (see section “Stall Protection”) occur. The motor and battery pack are protected by cutting back the voltage to the motor in these situations.

VARIABLE SPEED SLIDE SWITCH
Your tool is equipped with a variable speed slide switch. The speed may be adjusted during operation by sliding the switch back or forth between any one of the settings.

The speed of Rotary Tool is controlled by setting this dial on the housing. PICTURE 7

Settings for Approximate Revolutions

Switch Setting	Speed Range
5	5000-7000 min^{-1}
10	7000-10000 min^{-1}
*15	13000-17000 min^{-1}
20	18000-23000 min^{-1}
25	23000-27000 min^{-1}
30	28000-30000 min^{-1}

* Do not exceed 15000 min^{-1} when using wire brushes.

Refer to the Speed Settings chart on pages 4-7 to help determine the proper speed for the material being worked on and the accessory to use.

Most jobs can be accomplished using the tool at the highest setting. However, certain materials (some plastics and metals) can be damaged by high-speed generated heat and should be worked on at relatively low speeds. Low speed operation (15000 min^{-1} or less) is usually best for polishing operations employing the felt polishing accessories. All brushing applications require lower speeds to avoid wire discharge from the holder. Let the performance of the tool do the work for you when using lower speed settings. Higher speeds are better for hardwoods, metals and glass and for drilling, carving, cutting, routing and shaping.

Some guidelines regarding tool speed:

- Plastic and other materials that melt at low temperatures should be cut at low speeds.
- Polishing, buffing and cleaning with a wire brush must be done at speeds no greater than 15000 min^{-1} to prevent damage to the brush and your material.
- Wood should be cut at high speed.
- Iron or steel should be cut at high speed.
- If a high speed steel cutter starts to vibrate, it usually indicates that it is running too slowly.
- Aluminium, copper alloys, lead alloys, zinc alloys and tin may be cut at various speeds, depending on the type of cutting being done. Use a paraffin (not water) or other suitable lubricant on the cutter to prevent the cut material from adhering to the cutter teeth.

NOTE: Increasing pressure on the tool is not the answer when it is not performing properly. Try a different accessory or speed setting to achieve the desired result.

STALL PROTECTION

This tool has a stall protection feature built into it to protect the motor and battery in the event of a stall. If you put too much pressure on the tool for too long, or bind the bit in a work piece, especially at high speeds, the motor will stop. Simply take the tool out of the material you were stalled in, and the tool will begin to spin again at the selected speed. If the tool continues to stall for longer than 5 seconds, the tool will automatically shut itself off. This additional feature further protects the motor and the battery from damage. When the battery becomes close to empty, the tool may shut down automatically more frequent than normal. If this happens, it is time to recharge the battery.

MAINTENANCE

Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wiring and components which could cause serious hazard. We recommend that all tool service be performed by a Dremel Service Facility. To avoid injury from unexpected starting or electrical shock, always remove plug from wall outlet before performing service or cleaning.

CLEANING

⚠ WARNING TO AVOID ACCIDENTS, ALWAYS DISCONNECT THE TOOL AND/OR CHARGER FROM THE POWER SUPPLY BEFORE CLEANING. *The tool can be cleaned most effectively with compressed dry air.* Always wear safety goggles when cleaning tools with compressed air.

Ventilation openings and switch levers must be kept clean and free of foreign matter. Do not attempt to clean the tool by inserting pointed objects through an opening.

⚠ WARNING CERTAIN CLEANING AGENTS AND SOLVENTS DAMAGE PLASTIC PARTS. Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia.

SERVICE AND WARRANTY

⚠ WARNING NO USER SERVICEABLE PARTS INSIDE. Preventive maintenance performed by unauthorized personnel may result in incorrect connection of internal wiring and components which could cause serious hazard. *We recommend that all tool service be performed by a Dremel Service Centre. SERVICEMEN: Disconnect the tool and/or charger from the power source before servicing.*

This DREMEL product is guaranteed in accordance with statutory/country-specific regulations; damage due to normal wear and tear, overload or improper handling are excluded from the warranty.

In case of a complaint, send the undismantled tool or charger and proof of purchase to your dealer.

CONTACT DREMEL

For more information on the Dremel product range, support and hotline, go to www.dremel.com.

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2610Z03933 02/2012

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